

ABSTRACT OF THE DISCLOSURE

A system for extending an x Digital Subscriber Line (xDSL) distance using a reserved telephone line in accordance with the present invention, includes: a Customer-Provided Equipment (CPE) for supplying an x Digital Subscriber Line (xDSL) transmission service to a subscriber terminal; a Digital Subscriber Line Access Multiplexer (DSLAM) setting an initial link with the Customer-Provided Equipment (CPE) for the x Digital Subscriber Line (xDSL) transmission service, and transceiving data with the Customer-Provided Equipment (CPE) through the set link; and a distance extension module being installed with at least more than one module between the Digital Subscriber Line Access Multiplexer (DSLAM) and the Customer-Provided Equipment (CPE), in order to receive x Digital Subscriber Line (xDSL) transmission data from the Digital Subscriber Line Access Multiplexer (DSLAM) in connection with an optional reserved telephone line selected from telephone line bundles incoming from the Digital Subscriber Line Access Multiplexer (DSLAM), and after separating the received transmission data, to transmit the separated transmission data to a module of a back end or the Customer-Provided Equipment (CPE) or to transmit transmission data received from the module of the back end or the Customer-Provided Equipment (CPE).